PCT/AU2004/000914

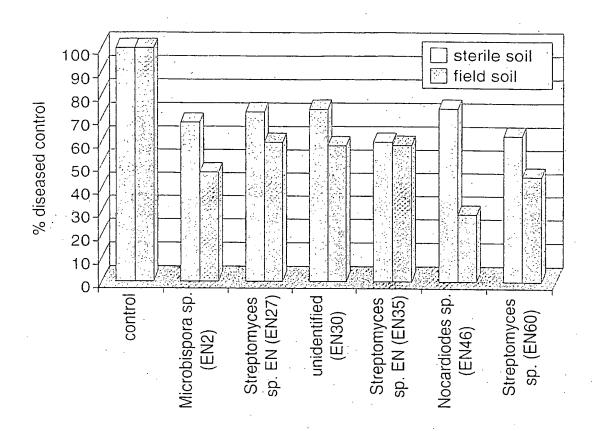
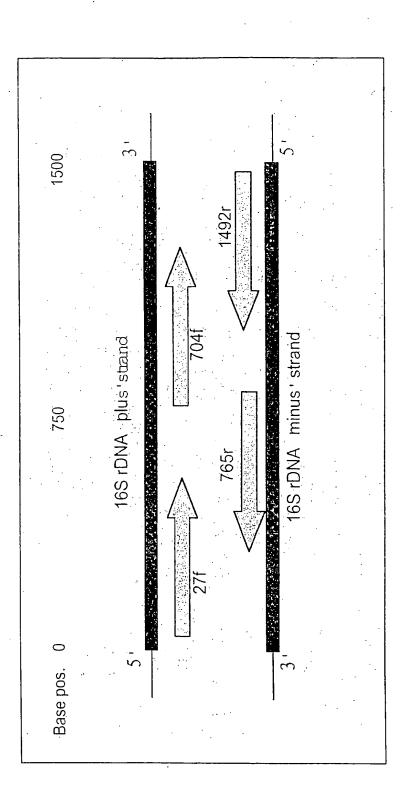


Figure 1



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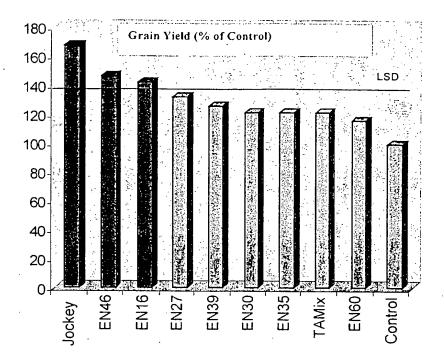
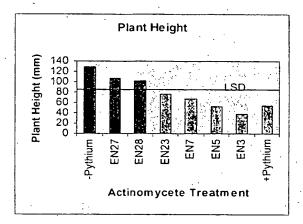


Figure 3



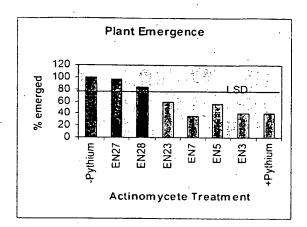


Figure 4

Figure 5

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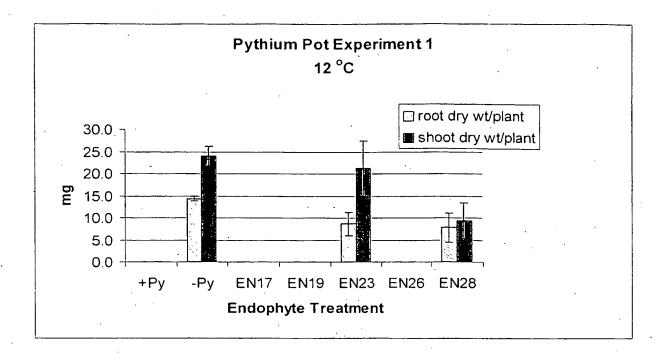


Figure 6

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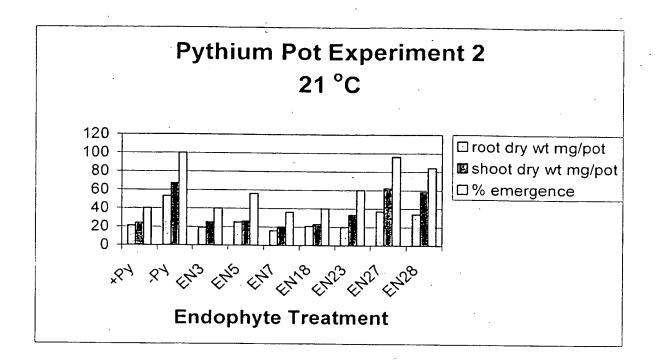
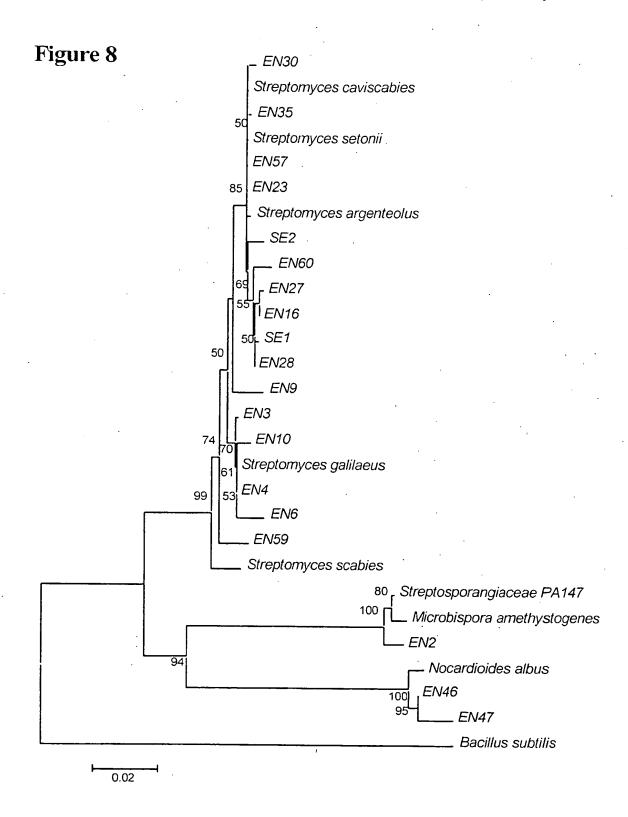


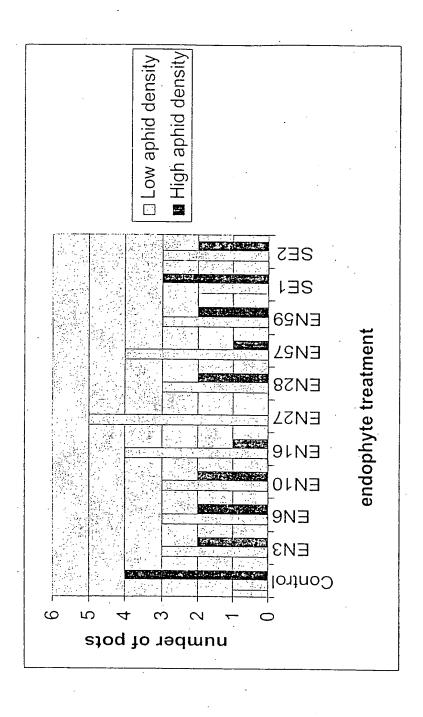
Figure 7

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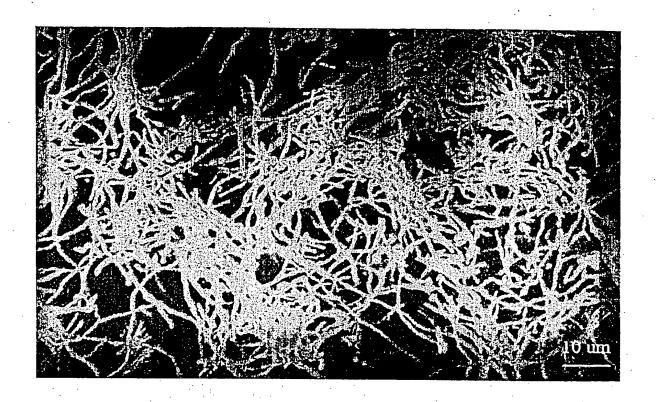


Figure 10

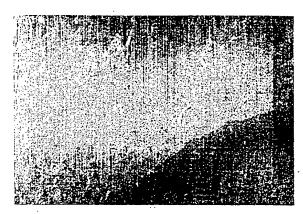
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11.1 Blue excitation/ green emission







11.3 Image enhanced merge

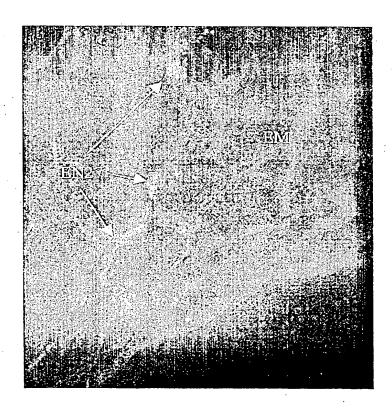
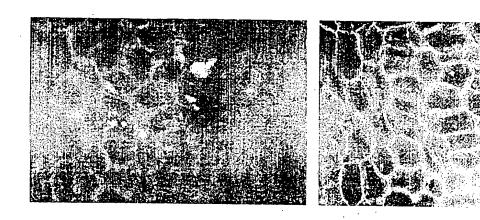


Figure 11

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12.1 Blue excitation/ green emission 12.2 UV excitation/ blue emission



12.3 Image enhanced merge

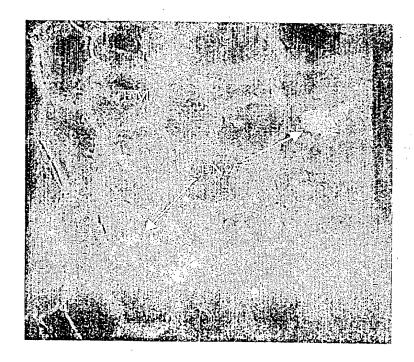
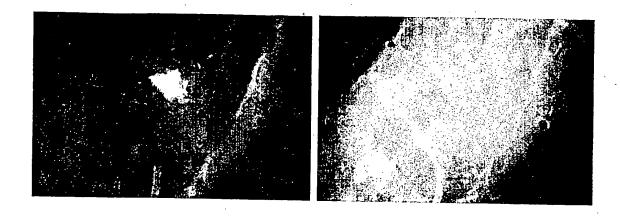


Figure 12

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13.1 Blue excitation/ green emission 13.2 UV excitation/ blue emission



13.3 Image enhanced merge

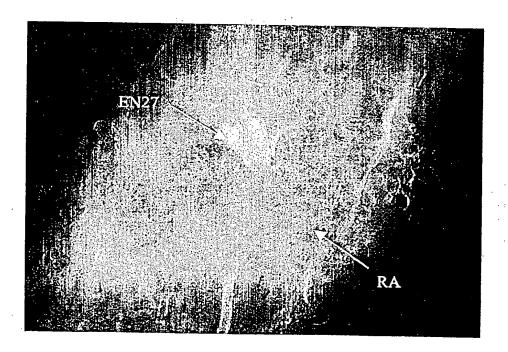
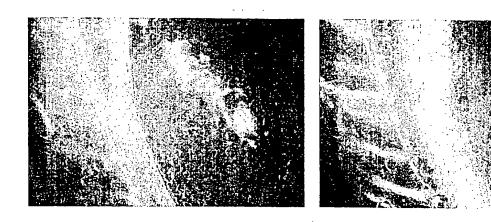


Figure 13

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14.1 Blue excitation/ green emission 14.2 UV excitation/ blue emission



14.3 Image enhanced merge

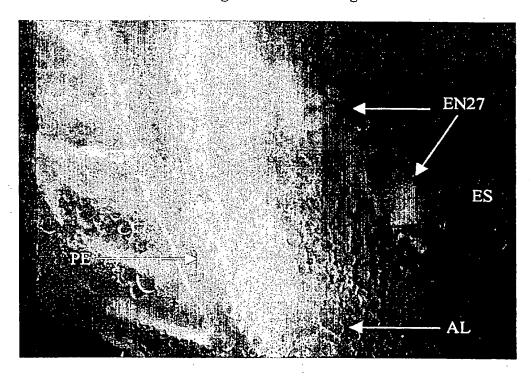


Figure 14

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FIGURE 15

EN2

SEQ ID NO:1

CTTAACACATGCAANTCAAGCGGAAAGGCCCTTCGGGGTACTCAANCGGCNAACGGGTGATTAACACNTGANTAA CCTGCCCCTGACTCTGGGATAANCCTGGGAAACTGGGTCTAATACCGGATACAACCATTTCTCNCATGGGATGGT GGTGGAAANTTTTTNCGGTTGGGGATGGGCTCGCGGCCTATCACCTTGTTGGTGGGGTGATGGCCTACCAAGGCg ${\tt ACgAACGGTagCCCGCCTGAgAGGGCGACCGGCCaCaCTGGGACTGAgACaCCGCCCgAACTCCTaCgGGAGGCA}$ gCACTgGGGAATaTTGCCCATGGGCGGAAGCCTGACGCAGNGACGCCGCGTGGGGGGATGACGGCCTTNGGGTTGT AAACCTNTTTCAGCAGGGACGAAGTTGACGTGTACCTGTAGAAGAAGCGCCGGCTAAATANGTGCCAGCAGCCGC GGTAATANGTAGGGCGCGAGCGTTNTCCGGAATTATTGGGCGTAAAGAGTTTGTAGGTGGCTTGTTGCGTTTGCC GTGAAAGCCCGTGGCTTAANTACGGGTTTGCGGTGGATACGGGCAGGCTAGAGGCTGGTAGGGGCAAGCGGAATT CCTGGTGTAGCGGTGAAATGCGCAGATATCAGGAGGAACACCGGTGGCGAAGGCGGCTTGCTGGGCCAgTTCtGA CGGTGAGGAGCGAAAGCGTGGGGGGGGACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGTTGGGCGCTA GGTGTGGGGGTCTTCCACGATCTCTGTGCCGTAGCTAACGCATTAAGCGCCCCGCCTGGGGAGTACGGCCGCAAG ACCTTACCAAGGTTTGACATACACCGGAAACACTCANANATGGGTGCCTCCTTTGGACTGGTGTACAGGTGGTGC ATGGCTGTCNNCACCCTCGTGTCGTNAGATGTNGGGTTAAGTCCCGCAACGANCGCAACCCTTGGTTCCATGTTG CCAGCACNCCCTTTGNGGTGGGGGACNCATGGGANAATGCCGGGGTCNACTCNGGAGGAAGGTGGGGATGACG TCAAGTNATCNTGCCCCTTATGTTCTTGNNGTG

EN3

SEQ ID NO:2

GCTGGCGGCGTGCTTAACACATGCAAGTCGAACGATGAACCACTTCGGTGGGGATTAGTGGCGAACGGGTGAGTA ACACGTGGGCAATCTGCCCTTCACTCTGGGACAAGCCCTGGAAACGGGGTCTAATACCGGATAACACTNCTGCTC TCACCAAGGCGACGACGGGTAGCCGGCCTGAGAGGGGCGACCGGCCACACTGGGACTGAGACACGGCCCAGACTCC TACGGGAGGCAGCAGTGGGGAATATTGCaaCAATGGGCGAAAGCCTGATGCAGCGACGCCGCGTGAGGGATGACG CCCTTCGGGTTGTAAACCTCTTTCAGCAGGGAAGAAGCGAAAGTGACGGTACCTGCAGAAGAAGCGCCGGCTAAC TACGTGCCAGCAGCCGCGTAATACGTAGGGCGCAAGCGTTGTCCGGAATTATTGGGCCGTAAAGAGCTtGTAGGC TAGGGGAGATCGGAATTCcTGGTGTAGCGGTGAAATGCGCAGATATCAGGAGGAACACCGGTGGCGAAGGCGGAT cTcTGGGCCATTACTGACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGGTAGTCCACGCC GTAAACGGTGGGAACTAGGTGTTGGCGACATTCCACGTCGTCGGTGCCGCAGCTAACGCATTAAGTTCCCCGCCT GGGGAGTACGGCCGCAAGGCTAAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCAGCGGAGCATGTGGCTTAA TTCGACGCAACGCGAAGAACCTTACCAAGGCTTGACATACACCGGAAAGCATCAGAGATGGTGCCCCCCTTGTGG TtCGGTGTACAGGTGGTGCATGGCTGTCGTCAGCTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCA ACCCTTGTTCTGTGTTGCCAGCATGCCCTTCGGGGTGATGGGGACTCACAGGAGACCGCCGGGGTCAACTCGGAG GAAGGTGGGGACGACGTCAAGTCATGCCCCTTATGTCTTGGGCTGCACACGTGCTACAATGGcCGGTACAAA GAGCTGCGATACCGTGAGGTGGAGCGAATCTCAAAAAGCCGGTCTCAGTTCGGATTGGGGTcTGCAACTCGAcCC CATGAAGTCGGAGTTGcTAATAATCgCANATCAgCATTGCTGCGGTGAATACGTTcCCGGGCCTTGTACAcACCG CCcGTCACGTcACGAAAGTCGgTAAcACCcGAAgCCGGTGGCCAACCCCTTgTGGGAGGGAGCTGTCGAAGGTGG GACTGGCGATTG

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[FIGURE 15 CONTINUED]

EN16

SEQ ID NO:7

EN23

SEQ ID NO:10

ACGAACGCTGGCGGCGTGCTTAACACATGCAAGTCGAACGATGAAGCCGCTTCGGTGGTGGATTAGTGGCGAACG GGTGAGTAACACGTGGGCAATCTGCCCTTCACTCTGGGACAAGCCCTGGAAACGGGGTCTAATACCGGATAACAC TCTGTCCCGCATGGGACGGGGTTGAAAGCTCCGGCGGTGAAGGATGAGCCCGCGGCCTATCAGCTTGTTGGTGGG GTAATGGCCTACCAAGGCGACGACGGGTAGCCGGCCTGAGAGGGCGACCGGCCACACTGGGACTGAGACACGGCC CAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGAAAGCCTGATGCAGCGACGCCGCGTGAGG GATGACGGCCTTCGGGTTGTAAACCTCTTTCAGCAGGGAAGAAGCGAAAGTGACGGTACCTGCAGAAGAAGCGCC GGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGAGCT CETAGGCGGCTTGTCACGTCGGATGTGAAAGCCCGGGGCTTAACCCCGGGTCTGCATTCGATACGGGCTAqCTAG AGTGTGGTAGGGGAGATCGGAATTCCTGGTGTAqCGGTGAAATGCGCAGATATCAGGAGGAACACCGGTGGCGAA GGCGGATCTCTGGGCCATTACTGACqTcTGAGGAGCGAAAGCGTGGGqAqCGAACAGGATTAGATACCCTGqTAG TCCACGCCGTAAACGTTGGqAACTAGqTGTTGGCGACATTCCACGTCGTCGGTGCCGCAGCTAACGCATTAAGTT CCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCAGCGGAGCATG TGGCTTAATTCGACGCAACGCGAAGAACCTTACCAAGGCTTGACATATACCGGAAAGCATCAGAGATGGTGCCCC CCTTGTGGTCGGTATACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTCGTGAGATGTTGGGTTAAGTCCCGCAAC GAGCGCAACCCTTGTTCTGTTGCCAGCATGCCCTTCGGGGTGATGGGGACTCACAGGAGACTGCCGGGGTCAA CTCGGAGGAAGGTGGGGACGTCAAGTCATCATGCCCCTTATGTCTTGGGCTGCACACGTGCTACAATGGCCG GTACAATGAGCTGCGATGCCGCGAGGCGGAGCGAATCTCAAAAAGCCGGTCTCAGTTCGGATTGGGGTCTGCAAC TCGACCCCATGAAGTCGGAGTTGCTAGTAATCGCAGATCAGCATTGCTGCGGTGAATACGTTCCCGGGCCTTGTA AAGGTGGGACTGGCGATTG

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[FIGURE 15 CONTINUED]

EN27

SEQ ID NO:12

TTAANACATGCAANTCGAACGATGAACCCNGTTTCGGTGGTGGATTAGTGGCGAACGGTGAGTAANANGTGGGCA ATTTGCCCTTCATTTTGGACAAGCCCTGGAAACGGGTTTAATACCGGATAACATTTTNTCCCGCATGGGANGGGG TTGAAAGNTCCGGCGGTGAAGGATGAGCCCGCGGCCTATNAGCTTGTTGGTGGGGTAATGGCCTACCCAAGGGAG ACGGGTAGCCGGCCTGAGAGGGCGACCGGCCACACTGGGAATGAGANACGGCCCAGAATCCTACGGGAGGCAGCA GTGGGGAATATTGCACAATGGGCGAAAGCCTGATGCAGCGANGCCGCGTGAGGGATGACGGCCTTNGGGTTGTAA ACCTTTTTNAGCAGGGAAGAGCGAAAGTGACGGTACCTGCAGAAGAAGCGCCGGCTAAATAAGTGCCAGCAGCC GCGGTAATAAGTAGGGCGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGAGCTTGTAGGCGGCTTGTCANGTNGG ATGTGAAAGCCCGGGGTTAACCCCGGGTTTGCATTTGATACGGGCTAGNTAGAGTGTGGTAGGGGAGATNGGAA TTCCTGGTGTAGCGGTGAAATGCGCAGATATCAGGAGGAACACCGGTGGCGAAGGCGGATCTCTGGGCCATTACT GACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGGTAGTCCACGCCGTAAACGTTGGGAAC TAGGTGTTGGCGACATTCCACGTCGTCGGTGCCGCAGCTAACGCATTAAGTTCCCCGNCTGGGGAGTACGGCCGC AGAACCTTACCAAGGCTTGACATATACCGGAAAGCATCAGAGATGGTGCCCCCCTTGTGGTCGNTATACANGTGG TGCATGNCTGTCGTCACCTCGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCNACCCTTGNTCTGTGTT GNCANCATGCCCTTCGGGGNTGATGGGGACTCACAGGANACTGNCCGGGGTCAACTCCGGANGAAGGTGGGTGAC GAAGTCAAGGTCATCATGNCCCCTTATGTCTTGGTGCTGCACACGTGC

EN28

SEQ ID NO:13

TTCGGNGGTGANTAGNGGCGNACGGGNGACCAACANGNGGGCAATCCCCCCTTCANTTTNGGACAACCCCTGGA AACGGGTTNTAATACCGGATAACANTTTNTCCCCGCATGGGANGGGGTTGAAAGCTCCGGCGGTGAAGGATGAGC CCGCGGCCTATCAGCTTGTTGGTGGGGTAATGGCCTACCAAGGCGACGACGGGTAGCCGGCCTGAAGAGGCGACC GGCCACACTGGGANTGAGANACGGCCAGAATCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGAAA GCCTGATGCAGCGACGCCGCGTGAGGGATGACGGCCTTCGGGTTGTAAACCTTTTTCAGCAGGGAAGAAGCGAAA GTGACGGTACCTGCAGAAGAAGCCGCGCTAAATANGTGCCAGCAGCCGCGGTAATANGTAGGGCGCAAGCGTTG TCCGGAATTATTGGGCGTAAAGAGNTTGTAGGCGGCTTCANGTCGGATGTGAAAGCCCGGGGCTTAACCCCGG GTTTGCATTCGATACGGGCTAGCTAGAGTGTGGTAGGGGAGATCCGAATTCCTGGTGTAGCGGTGAAATGCGCAG ATATCAGGAGAACACCGGTGGCGAAGGCGTTCTCTGGGCCATTACCTGGTGTAGCGGTGAAAGCGTGGGAACCCGGTGGAAACCCTGGTAGTCCACGTCGTCGTTAGCAGAGAACACCGGTGCGAAAGCCGTAAACCTCACGTCGT CGGTGCCGCAAGCATTACCACGTCGT CGGTGCCGCAAGCCTAAAACTCAAAGGAATTGAC GGGGGCCCGCAAGCCTAAACCTCAAAGGAATTGAC GGGGGCCCGCAAACCAGAACCCTTACCAAAGGAATTGAC GGGGGCCCGCAAAGCAGCATTAACGCTTGACATAT

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[FIGURE 15 CONTINUED]

EN46

SEQ ID NO:16

ATGCAAGTCGAGCGGAAAGGCCCTTCGGGGTACTCGAGCGGCGAACGGGTGAGTAACACGTGAGTTAATCTGCCC CAGGCTCTGGATACCCACCGGAAAACGGTGATTAATACCGAATACGACAACCGATTTGCATGATCTGGTqGTGNA ${\tt AAGTTTTTCGGCCTGGGATGTGCTTCGCGGCCTATCAGCTTGTTGGTGAGGTAATGGCTCACCCAAGGCTTCGAC}$ GGTAGCCGGCCTGAGAGGGTGACCGNCCACACTGGGACTGAGACACGGCCCAGACTCCTACGGGAGGCAGCAGTG GGGAATATTGGACAATGGGCGGAAGCCTGATCCAGCAACGCCGCGTGAGGGATGACGGCCTTCGGGTTGTAAACC TCTTTCAGCACAGACGAAGCGCAAGTGACGGTATGTGCAGAAGAAGGACCGGCCAACTACGTGCCAGCAGCCGCG GTAATACGTAGGGTCCGAGCGTTGTCCGGAATTATTGGGCGTAAAGGGCTCGTAGGCGGTCTGTCGCGTCGGGAG TGAAAACCAGGTGCTTAACACCTGGCCTGCTTTCGATACGGGCAGNCTAGAGGTACNCAGGGGAGAATGGAATTC CTGGTGTAGCGGTGAAATGCGCAGATATCAGGAGGAAACACCGGTGGCGAAGNCGGTTCTCTGGGAGTATCCTGA CGCTGAGGAGCGAAAGTGTGGGGGAGCGAACAGGATTAGATACCCTGGTAGTCCACACCGTAAACGTTGGGCGCTA GGTGTGGGACACTTCCACGTGTTCCGTGCCGCAGCTAACGCATTAANCGCCCCGCCTGGGGAGTACGGCCGCAA NGCTAAAACTCANAGGAATTGACGGGGGCCCGCACAAGCGGCGGAGCATGCGGATTAATTCGATGCAACGCGAAG AACCTTACCTGGGTTTGACATACACCGGAAAGCCGTACAGATACGGCCCCTTTTAGTCgGTGTaCAGGTGGTGCA TGGCTGTCgtCAgCtCgCTGTCGTGAGATGTtCGGGTTAAGTCCCGCAACGAGCGCAaCCCTCgTCCTATGTTGC ${\tt CaGCAATTCGGTTGgGGACTCATAGGAGACTGCCgGGGGTCaACTCGGAGGAAGGTGGGGATGACGTCAAGTCATC}$ ATGCCCCTTATGTCCAGGGCTTCACGCATGCTACAATGGCCGGTACAAAGGGCTGCGATCCCGTGAGGGTGAGCG AATCCCAAAAAGCCGGTCTCAGTTCGGATTGGGGTCTGCAACTCGACCCCATGAAGTCGGAGTCGCTAGTAATCG CAGATCAGCAACGCTGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCCGTCACGTCACGAAAGTCGGCAAC ACCCGAAGCCANTGGCCCAACTCGTAAGAGAGGGAGCTGT

EN60

SEQ ID NO:18

ATGCAAGTNGAACGATGAANCCNTTTGGGGTGGATTAGTGGCGAACGGGTGAGTAANANGTGGGCAATTTGCCCT TCAATTTGGGACAAGCCCTGGAAACGGGGTNTAATACCGGATAACANTNTGTCCCGCATGGGACGGGGTTAAAAG CTCCGGCGGTGAAGGATGAGCCCGCGGCCTATNAGCTTGTTGGTGGGGTGATGGCCTACCAAGGCGACGACGGGT AGCCGGCCTGAGAGGGGGACCGGCCACACTGGGACTGAGACACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGG AATATTGCACAATGGGCGAAAGCCTGATGCAGCGACGCCGCGTGAGGGATGACGGCCTTCGGGTTGTAAACCTTT TTCAGCAGGGAAGAAGCGAAAGTGACGGTACCTGCAGAAGAAGCGCCGGCTAAATANGTGCCAGCAGCCGCGGTA ATANGTAGGGCGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGAGTTTGTAGGCGGCTTGTCACGTNGGATGTGA GTGTAGCGGTGAAATGCGCAGATATCAGGAGGAACACCGGTGGCGAAGGCGGaTcTcTGGGCCATTACTGACGNT GAGGAGCGAAAGCGTGGGGAGCNAACAGNATTAGATACCCTGGTAGTCCAAGCCGTAAACGTTGGGAACTANGTG TTGGCGACATTCCACGTCGTCNNTGCCGCANCTAACGCATTAAGTTCCCCGCCTGGGGAGTACGGCCGCAAGGCT AANACTCAAAGGAATTGANGNNGGCCCGCACAAGCAGCGGAGCATGTGGCTTANTTCNACGCANCGCGAAGAACC TTACCAAGGTTTGCCATATACCGGAAAgCaTCAgAgATgGTGCCCCCCTtGTGGTCGGTATACAGgTGGTGCNTG GCTGTCGTCAGCTCGTGACAtGTtGGTTAAgTCCCGTCAaCGAGGCGCAACCCTTGTTNTGTGTNGCCAG CATGCCCTTCGGGGTGATGGGGACTCACAGGAGACTGCCGGGGGTCAACTCGGAGGAAGGTGGGGACGACGTCAAG TCATCATGCCCCTTATGTCTTGGGCTGCACACGTGCTACAATGGCCGGTACAATGAGCTGCGATGCCGCGAGGCG GAGCGAATCTCAAAAAGCCGGTNTCAGTTCGGATTGGGGTCTGCAACTCGACCCCATGAAGTCGGAGTTGCTAGT AATCGCAGATCAGCATTGCTGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCCGTCACGTCACGAAAGTCG GTAACACCCGAAGCCGNTGG

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[FIGURE 15 CONTINUED]

PM87

SEQ ID NO:24

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GGCCCAGANATCCGNCTTCGCCACCGGTGTTCCTCCTGAATATCTGCGCATTTCACCGCTACACCAGGAATTCCG
ATCTCCCCTACCACACTCTAACTAGCCCGTATCGAATGCAGACCCGGGGTTAAGCCCCGGGCTTTCACATCCGAC
GTGACAAGCCGCCTACGAGCTCTTTACGCCCAATAATTCCGGACAACGCTTGCGCCCTACGTATTACCGCGGCTG
CTGGCACGTAATTAGCCGGCGCTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTGCTGAAAGAGGTTTACA
ACCCGAAGGCCGTCATCCCTCACGCGGCGTCGCTGCATCAGGCTTTCGCCCATTGTGCAATATTCCCCACTGCTG
NCTCCCGTANGAGTCTGGGCCGTGTCTCAGTCCCAGTGTGGCCGGTCGNCCTCTCAGGCCGGCTACCGTCGC
CTTGGTAGGCCATTACCCCACCAACAAGCTGATANGCCGNGGGCTCATCCTTCANCGTCGGAGCTTTCAANCCCG
TCCATGCGGGACAGAGTGTTATCCGGTATTANACCCCGTNTCAGGGCTTGTCCANAGTGAAGGGCAGATNGCCAC
GTGTTATCACCGTTCGCCACTAATNACANCGAAACGGCTTATCGTNCGACTGCATGTGTTAACACNCGCAGCGTT
CGTCCTGAGCCAG

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FIGURE 16

EN5.

SEQ ID NO:3

GTAATGGCCCANAAAACCGCCTTCGCCACCGGTGTTCCTCCTGATATCTGCGCATTTCACCGCTACACCAGGAAT
TCCNATCTCCCCTACCACACTCTAGCTAGCCCGTATCNAATGCAAACTCGGGGTTAAGCCCCNAGCTTTCACATC
CGACGTGACAAGCCGCCTACAANCTCTTTACGCCCAATAATTCCGGANAACGCTCGCACCCTACNTNTTACCGCG
GCTGCTGGCNCGTNTTTAGCCGGTGCTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTGCTNAAAAAGGTT
TACAACCCTANGGCCGT

EN6

SEQ ID NO:4

EN7

SEQ ID NO:5

EN9

SEQ ID NO:6

GGCGGCGTGCTTAACACATGCAAGTCGAACGATGAAGCCCTTCGGGGTGGATTAGTGGCGAACGGGTGAGTAACA
CGTGGGCAATCTGCCCTTCACTCTGGGACAAGCCCTGGAAACGGGTTTAATACCGGATACGATTCGGGAGGCAT
CTCCTGGtaCTGGAAAGCTCCGGCGTGAAGGATGAGCCCGCGGCCTATCAGCTTGTTGTGGGTAATGGCCTACC
AAGGCGACGGGTAGCCGGCCTGAGAGGGCCGACCGGCCACACTGGGACTGAGACACCGGCCCAGACTCCTACGG
GAGGCAGCAGTGGGGAATATTGCACAATGGGCGAAAGCCTGATGCAGCGCCGCGTGAGGGATGACGGCCTTC
GGGTTGTAAACCTCTTTCAGCAGGGAAGAAGCCGAAGAGCCGGCCAGACTCCTACGG
CCAGCAGCCGCGTAATACGTAGGGCGCAAGCGTTGTCCGGAATTATTGGCCTAAAAGAGCTCGTAGGCGGCTTG
TCACGTCGGGTGTGAAAGCCCGGGGCTTAACCCCGGGTCTGCATCCGATACGGCCAGGCTAGAGTGTGGTAGGGG
AGATCGGAATTCCTGGTGTAGCGCGCAAATCCCGGGTCTCAACCCGGTGGCGAAGCGGATCTCTGG
GCCATTACTGACGCTGAGGAGCGAAATCCACGCAGATATCAGGAGGAACACCGGTGGCGAAGGCGGATCTCTGG
GCCATTACTGACGCTGAGGAGCGAAATCCACGTCGTCGTCGCCCAACGCCGTAAAC
GTTGGAACTAGGTGTTGGCGACATTCCACGTCGTCGGTGCCGCAACGCAGTTAAGTTCCCCGCCTGGGGAGT
ACGGCCGCAAGGCTAAAACTCAAAGGAATTGACGGGGGCCCCCCAAAGCAGCGGAGCATGTGGCTTAATTCGACG
CAACGCGAAGAACCTTACCAAGGCTTGACATATACCGGAAAGCGCCCAGAGATGGTGCCCCCCTTGTGGTCGTAT
ACAGGTGGTGCATGGCTTCAGCTCGTTCGTTCGTGGTCGGTTAATTCCGCCAACGAGCGCCAACGAGCCCCCCCTTTGTGGTCGGTAT
ACAGGTGGTGCATGGCTTCAGCTCGTTCGTTCGTTGGGTTAAGTCCCCGCCAACGAGCCCCCCTTTGTGGTCGGTAT
ACAGGTGGTGCATGGCTTCAGCTCGTTCGTTCGTTGGGTTAAGTTCCCCGCCAACGAGCCCCCCTTTGTGGTCGGTAT
ACAGGTGGTGCATGGCTTCAGCTCGTTCGTTCGTTGGGTTAAGTTCCCCGCAACGAGCCCCCCTTTGTGGTCGGTAT
ACAGGTGGTGCATGGCTTCAGCTCGTTCGTTCGTTGGGTTAAGTTCCCCGCCAACGAGCCCCCCCTTTGTGGTCGGTATAACCCCTTGT

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[FIGURE 16 CONTINUED]

EN17

SEQ ID NO:8

CCGCCTTCGCCACCGGTGTTCCTCCTGATATCTGCGCATTTCACCGCTACACCAGGAATTCC
NATCTCCCTACCACACTCTAGCTAGCCCGTATCAAATGCAAACCCGGGGTTAAGCCCCGGGCTTTC
ACATCCNACGTGACAAGCCGCCTACAANCTCTTTACGCCCAATAATTCCGGACAACGCTTGCGCCCT
ACNTATTACCGCGGCTGCTGGCACNTATTTAGCCGGCGCTTCTTCTGCAGGTACCGTCACTTTCGCT
NCTTCCCTGCTGAAANAGGTTTACAACCCAAAGGCCNTCATCCCTCNCCGGCNTCNTTGCNTCNGGC
TTNCNCCCATTGTTCAANNTTCCCCACTGCTNCCTCCCCTCGGAATCTGGGCCGNTGTCTCATTCCCN
TTNTGGCCGGTCCCCCTCNCAGGCCNGCTACCC

EN19

SEQ ID NO:9

CTCAGCGTCNGTAATGGCCCAAAAACCGCCTTCGCCACCGGTGTTCCTCCTGATATCTGCGCATTTCACCGCTAC
ACCAGGAATTCCNATCTCCCCTACCACACTCTAGCTAGCCCGTATCNAATGCAAACCCGGGGTTAANCCCCGGGC
TTTCACATCCNACNTGACAAGCCGCCTACAANCTCTTTACGCCCAATAATTCCGGACAACGCTTGCNCCCTACTT
ATTACCGCGGCTGCTGGCACTTATTTAGCCGGCGCTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTGCTN
AAAAAGGTTTACAACCCNAAGGCCGTCATCCCTCACGCGGCNTCGCTGCATCAGGCTTTCNCCCATTGTGCAATA
TTCCCCACTGCTGCCTCCCGTAGGATTCTGGGCCGTNTCTCATTCCCANTGTGGCCGGTCGCCCTCTCAGGCCGG
CTACCCGTCNTCNCCTTGGTAGGCCATTACCCCACCAACAAGCTNATAGGCCGCGGGCTCATCCTTCACCGCCGG
AAGCTTTCAACCCCNTCCATGCGGGANAAATTGTTNTCCGGTATTAAACCCCGTTTCCAGGGNTTGTCCCAAAAT
TGAAGGGGGGGATTGNCCACTTTTTACTCACCCGTTCNCCNCTAATCCACCACC

EN26

SEQ ID NO:11

CCGCCTTCGCCACCGGTGTTCCTCCTGATATCTGCGCATTTCACCGCTACACCAGGAATTCCNATCTCCCCTACC
GAACTCTANCCTGCCGTATCNACTGCAAACCCGGGGTTAAGCCCCGGGCTTTCACAACCGACNTGACAAGCCGC
CTACAANCTCTTTACNCCCAATAATTCCGGACAACGCTTGCGCCCTACNTATTACCGCGGGCTGCTGGCACNTATT
TAGCCGGCGCTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTGCTGAAAAAGGTTTACAACCCGAAGGCCG
TCNTCCCTCACGCGGCGTCGCTCATCAGGCTTTCGCCCATTGTGCAATATTCCCCACTGCTGCCTCCCGTAGGA
TTCTGGGCCGTGTCTCANTCCCANTNTGGCCGGTCCCCTCTCAGGCCGGNTACCCGTCGTCCCTTGGTGAACCNC
TACCTCNCCAACAANCTGATAGGGCGCGGGCTCANCNTGCACGCCGGANCTTT

EN35

SEQ ID NO:14

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[FIGURE 16 CONTINUED]

GGTGGTGCATGGCTGTCGTCANCTCGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCCTTGTTCT GTGTTGCCAGCATGCCCTTCGGGGTGATGGGGACTCACAGGAGACTGCCGGGGTCAaCTCGGAGGAAGGTGGGGA CGACGTCaAGTCATCATGCCCCTTATGTCTTGGGCTGCACACGTGCTACAATGGCCGCTACAATGACCTGCGATG CCGCgAGGCgGACCGAATCTCAAACAAGCCCGTCTCATTCGGATTGCGGTCTGCaActcCGACCCCATgAAgTCC GACTTGCTAgTACTCGCACgTCAACaTtGCTGCGCTGaATACgTCCCCGGGCCTTGTACACACCGCCCGTCACGT CACGAAAGTCGGTAACACCCGAAGCCGGTGGNCCAACCCCTTGTGGGAGGGAGCTGTCGAA

EN39

SEQ ID NO:15

ccgccttcgccaccggtgttcctcctgatatctgcgcatttcaccgctacaccaggaattccnatctcccctacc acactotagotanocogtatonaatgoaaacooggggttaacoocogggotttcacacoonacntnacaanoogo ctacaaactctttacgcccaataattccggacaacgcttgcgccctacttattaccgcggctgctggcacttatt tagccggcgcttcttctgcaggtaccgtcactttcgcttcttccctgctgaaaaaggtttacaacccgaaggeng tcatccctcacgcggcntcgctgcatcaggctttcgcccattgtgcaatattccccactgctgcctcccgtagna ntctgggccgtntctcantcccagtgtggncggtcgccctctcaggccggctacccgtcgtcncctnggtnaacc attanntcaccaacaagetgataggeegegggeteateetteacegeeggagettttaacceetgeeeatgaaaa cagangtnttatccggtattanaacccgtttccaggg

EN57

SEQ ID NO:17

GTGCTTAACACATGCAAGTCGAACGATGAAGCCGCTTCGGTGGTGGATTAGTGGCGAACGGGTGAGTAACACGTG GGCAATCTGCCCTTCACTCTGGGACAAGCCCTGGAAACGGGGTCTAATACCGGATAACACTCTGTCCCGCATGGG ACGGGGTTGAAAGCTCCGGCGGTGAAGGATGAGCCCGCGGCCTATCAGCTTGTTGGTGGGTAATGGCCTACCAAG GCGACGACGGGTAGCCGGCCTGAGAGGGCGACCGGCCACACTGGGACTGAGACACGGCCCAGACTCCTACGGGAG GCAGCAGTGGGGAATATTGCACAATGGGCGAAAGCCTGATGCAGCGACGCCGTGAGGGATGACGGCCTTCGGG TTGTAAACCTCTTTCAGCAGGGAAGAAGCGAAAGTGACGGTACCTGCAGAAGAAGCGCCGGCTAACTACGTGCCA GCAGCCGCGGTAATACGTAGGGCGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGAGCTCGTAGGCGGCTTGTCA TCGGAATTCCTGGTGTAGCGGTGAAATGCGCAGATATNCAGGAGGAACACCGGTGGCGAAGGCGGATCTCTGGCC ATTACTGACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGGTAGTCCACGCCGTAAACGTT GGGAACTAGGTGTTGGCGACATTCCACGTCGTCGGTGCCGCAGCTgAACGCATTAAGTTCCCCGCCTGGGGAGTA CGGCCGCAAGGCTAAAACTCAAAGGAATTGACGGGGGCCCCGCACAAGCAGCGGAGCATGTGGCTTAATTCGACGC AACGCGAAGAACCTTACCAAGGCTTGACATATACCGGAAAGCATCAGAGATGGTGCCCCCCTTGTGGTCGGTATA ${\tt CAGGTGGTGCATGGCTCGTCGTGTGTGGGTTAAGTCCCGCAACGAGCGCAACCCTTGTT}$ GACGACGTCAAGTCATGCCCCTTATGTCTTGGGCTGCACACGTGCTACAATGGCCGGTACAATGAGCTGCGA ${\tt TGCCgCGAgGCGAgCgAATCTCAAAAAGCCGGTCTCAgTTCGGATTGGGGTCTGCAACtCGACCCCATGAAGTC}$ GGAgTTGCTAgTAATCgCAgATCAgCATTGCTGcGGTGAATACGTTCCCGGGCCTTGTACACACCGCCGTCAcGT CACGAAAGTCGGTaACACCCGAAGCCGGTGGCCCAACCGCCTTGTGGGAAGGGAACTTTCCA

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FIGURE 17

SE1

SEQ ID NO:19

GAACGATGAAGCCGTTTCGGTGGTGGATTAGTGGCGAACGGTGAGTAAAAGTGGCAATTTNCCCTTCATTTTGGA CAAGCCCTGGAAACGGGTTTAANACCGGATAACATTNTGTCCCGCATGGGACGGGGTTGAAAGNTCCCGGCGGTG AAGGATGAGCCCGCGGCNTATCAGCTTGTTGGTGGGGTAATGGCCTACCAAGGCGACGACGGGTAGCCGGCCTGA GAGGGCGACCGGCCACACTGGGANTGAGACACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACA ATGGGCGAAAGCCTGATGCAGCGACGCCGCGTGAGGGATGACGGCCTTCGGGTTGTAAACCTNTTTCAGCAGGGA AGAAGCGAAAGTGACGGTACCTGCAGAAGAAGCGCCGGCTAAATANGTGCCAGCAGCCGCGGTAATANGTAGGGC GCAAGCGTTGTCCGGAATTATTGGGCGTAAAGAGCTTGTAGGCGGCTTGTCANGTCGGATGTGAAAGCCCGGGGC TTAACCCCGGGTTTGCATTCGATACGGGCTAGTTAGAGTGTGGTAGGGGAGATNGGAATTCCTGGTGTAGCGGTG AAATGCGCAGATATCAGGAGGAACACCGGTGGCGAAGGCGGATCTCTGGGCCATTACTGACGCTGAGGAGCGAAA GCGTGGGGAGCNAACAGGATTAGATACCCTGGTAGTCCACGCCGTAAACGTTGGGAACTAGGTGTTGGCGACATT CCACGTCGTCGCTGCCGCAGCTAACGCATTAAGTTCCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACTCAAAG GAATTGACGGGGGCCCGCACAAGCAGCGGAGCATGTGGCTTAATTCGACGCAACGCGAACAACCTTACCAAGGCT ${\tt TGACATATACCGGAAAGCATCANAGATGGTGCCCCCCTTGTGGTCGTATACANGTGGTGCATGGCTGTCGTCAG}$ CTCGTGTCGTGAGATGTTGGGTTANGTCCCGCAACGAGCGCNACCCTTGTTCTGTTGTCGNCNAGCATGCCCTTCG $\tt NGGTGATGGGGACTCACANGAGACTGNCGGGGGTCCACTCGGAGGAAGGTGGCGACNACGTCANNTCATCATGCCC$ CCTTATGTCTTGGGNCTGGCCACGTGCNACNATGGCC

SE2

SEQ ID NO:20

GCTGGCGGCGTGCTTAACACATGCAAGTCGAACGATGAAGCCGCTTCGGTGGTGGATTAGTGGCGAACGGGTGAG TAACACGTGGGCAATCTGCCCTTCACTCTGGGACAAGCCCTGGAAACGGGGTCTAATACCGGATAACACTCTGTC CCGCATGGGACGGGGTTGAAAGCTCCGGCGGTGAAGGATGAGCCCGCGGCCTATCAGCTTGTTGGTGGGGTAATG GCCTACCAAGGCGACGACGGGTAGCCGGCCTGAGAGGGCGACCGGCCACACTGGGACTGAGACACGGCCCAGACT CCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGAAAGCCTGATGCAGCGACGCCGCGTGAGGGATGAC GGCCTTCGGGTTGTAAACCTCTTTCAGCAGGGAAGAAGCGAAAGTGACGGTACCTGCAGAAGAAGCGCCGGCTAA CGGCTTGTCACGTCGGATGTGAAAGCCCGGGGCTTAACCCCCGGGTCTGCATTCGATACGGGCTAgCTAGAGTGTG GTAGGGGAGATCGGAATTCCTGGTGTAGCGGTGAAATGCGCaGATATCAGGAGGAACAcCGGTGGGGAAGGcGGA ${\tt TCTCTGGGcCAtTACTGACGCTGAGGAGCGAAAGCGTGGGGGAGCGAACAGGATTAGATACCCTGGTAGTCCAAGC}$ CGTAAACGTTGGGAACTANGTGTTGGCGACATTCCACGTCGTCGCTGCCGCAGCTAACGCATTAAGTTCCCCGTC CTGGGGAGTACGCCGCNAGGCTAAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCAGCGGAGCATGTGGCTT ANTTCGACGCNACGCGAAGAACCTTNCCAAGGCTGACATATACCGGAAAGCATCAcAGATGGTGCCCCCCTTGTG ${\tt GTCGGTATACAGGgTGGTGCATGGCTGTCGTCGTGTCgtGAGATGTTGGGTTAaGTCCCGCAAAGAGCG}$ $\tt CAACCgTGTTCTGTGTTGCCAGCATGCCCTTCGGGGTGATGGGGACTCAcAcGAgACTGTCNGGGTCAACTCggatantering the complex of the com$ GGAAgGTGGGGACGACGTCAAGTtCATCCCCCTTATGTCTTGGGCTGCACACGNGCTACAATGGCCGGTACA ATGAGNNGGGATGCCGCGAGGCGAATCTCAAAAAGCCGGTCTCAGTTCGGATTGGGGTCTGCAACTGACC CCATGAAGTCGGAGTTGCTAGTAATCGCAGATCAGCATTGCTGCGGTGAATACGTNCCCGGGCCTNGTACACACC ACCCGTCACGTCACGAAAGTCGGTAACACCCTAAGCCGGTGNCCCAACCCCTTNTGGGAGG

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FIGURE 18

PM36

SEQ ID NO:21

CCAGANATCCGCCTTCGCCACCGGTGTTCCTCCTGATATCTGCGCATTTCACCGCTACACCAGGAATTCCGATCT CCCCTACCACACCTTCGCCCGGGTTCCGACCTGAATGCAGACCCGGGGTTAAGCCCCGGGCTTTCACATCCGACGTGA CAAGCCGCCTACGAGCTCTTTACGCCCAATAATTCCGGACAACGCTTGCGCCCTACGTATTACCGCGGCTGCTGG CACGTAGTTAGCCGGCGCTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTGCTGAAAGAGGTTTACAACCC GAAGGNCGTCATCCCTCACGCGGCGTCGCTGCATCAGGCTTTCGCCCATTGTGCAATATTCCCCACTGCTGCCTC CCGTAGGAGTCTGGGNCGTCTCAATNCCAGTGGTGGGCCGGTCGCCTCTCAGGNCGGCTACCGTCGTCGCCTT GGTAGGCATTACCACAACAAGCTGATAGGCGGGGGTCATCCTTCAACGCCGGAGCTTCAAACCCGTCCATGCGGG ACAAGTGTATCCGGTATTAAACCC

PM40

SEQ ID NO:22

TCAGTNATGGCCCAGAANGATCCGNCTTCGCCACCGGTGTTCCTCCTGATATCTGCGCATTTCACCGCTACACCA
GGAATTCCGATCTCCCCTACCACACTCTAACTAGCCCGTATCGAATGCAGACCCGGGGTTAAGCCCCGGGCTTTC
ACATCCGACGTGACAAGCCGCCTACGAGCTCTTNACGCCCAATAATTCCGGACAACGCTTGCGCCCTACGTATTA
CCGCGCTGCTGGCACGTAGTTAGCCGGCGCTTCTTCTGCAGGTACCGTNACTTTCGCTTCTTCCCTGCTGAAAG
AGGTTTACAACCCGAAGGCCGTCNTCCCTCACGCGGCGTCGCTGCATCAGGCTTTCGCCCATNGTGCANTATTCC
CCACTGNTGNCTCCCGTANGAGTCTGGGCCGTGTCTCAGTCCCAGTGTGGCCGGTCGNCCTCTCAGGCCGGCTAC
CGTCGTCGCCTTGGTAGGNCATTACCCACCAACAAGCTGATANGTCGNGGGCTCATCCTTCACCGNCGGAGNTTT
AACCCCGTNCATGCGGGACAGAGTGTTATCCGGTATTANACCCGTATNCAGGGCTTGTCCCATAGTGAAGGGNAG
ATNGCCACGTGTTATCACCGTTCGNCACTAATNATCANCGAANCGGCTTCATCGTTCGACTTGCATGTTTA

PM41

SEQ ID NO:23

PM171

SEQ ID NO:25

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[FIGURE 18 CONTINUED]

PM185-

SEQ ID NO:26

TCAGTAATGGCCCAGAGATCCGCCTTCGCCACCGGTGTTCCTCCTGGATATCTGCGCATTTCACCGCTACACCAG
GAATTCCGATCTCCCCTACCACACTCTAGCTAGCCCGTATCGAATGCAGACCCGGGGTTAAGCCCCGGGCTTTCA
CATCCGACGTGACAAGCCGCCTACGAGCTCTTTACGCCCAATAATTCCGGACAACGCTTGCGCCCTACGTATTAC
CGCGGCTGCTGGCACGTTAGTTAGCCGGCGCTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTGCTGAAAGA
GGTTTACAACCCGAAGGCCGTCATCCCTCACGCGGCGTCGCTGCATCAGGCTTTCGCCCATTGTGCAATATTCCC
CACTGCTGCCTCCCGTAGGAGTCTGGGCCGTGTCTCAGTCCCAGTTGGCCGGTCGCCTCTCAGGCCGGCTACC
CGTCGTCGCCTTGGTAGGCCATTACCCCACCAACAAGCTGATAGGCCGCGGGCTCATCCTTCACCGNCGGAGCTT
TAACCCCGTCCCATGCGGGACAGAGTGTTATCCGGTATTAGAACCCGTTTCCAGGGCTTGTCCCAGAGTGAAGGG
CAGATTGCCACGTGTTACTCANCCGTTCGNCACTAATCANCAACGAAGCGGCTTCATCGTTCGACTTGCATGTGT
TAAGCACGCCGNCAGCGTTCCTCGTCCTGAGCCAGGATC

PM208

SEQ ID NO:27

TCAGTATCNGCCCAGAGATCCGCCTTCGCCACCGGTGTTTCCTCCTGATATCTGCGCATTTCACCGCTACACCAG GAATTCCGATCTCCCCTACCGAACTCTAGCCTGCCCGTATCGACTGCAGACCCGGGGTTAAGCCCCGGGCTTTCA CAACCGACGTGACAAGCCGCCTACCGACTTTACGCCCAATAATTCCGGACAACGCTTGCGCCCTACGTATTAC CGCGGCTGCTGGCACGTAGTTAGCCGGCGCTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTGCTGAAAGA GGTTTACAAACCGAAGGCCGTCATCCCTCACGCGGCGTCGCTGCATCAGGCTTTCGCCCATTGTGCAATATTCCC CACTGGTGNCTCCCGTANGAGTCTGGGGCGGTGTCTCANTCCAGTGTGGGCGGTCGCTCTCAGGGCGGCTACCGT CGTCGCTTGGTGAGNCACTACTCACAACAAGCTGATAGGCGCGGGCTCATCTGGAACGGCGGAGCTTTACAC

PM228

SEQ ID NO:28

TCAGTAATGGCCCAGANATCCGNCTTCGCCACCGGTGTTCCTCCTGATATCTGCGCATTTCACCGCTACACCAGG AATTCCGATCTCCCCTACCACACCTCTAACTAGCCCGTATCGCAATGCAGACCCGGGGTTAAGCCCCGGGCTTTCAC AATTCCGACGTGACAAGCCCTACCACTCTTTCGCCCAATAATTCCGGACAACGCTTGCGCCCTACGTATTACC GCGCTGCTGGCACGTAGTTAGCCGGCGTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTGCTGAAAGAG GTTTACAACCCGAAGGCCGTCATCCCTCACGCGGGCGTCGCTGCATCAGGCCTTTCGCCCATTGTGCAATATTCCCC ACTGCTGCCTCCCGTANGAGTCTGGGCCGTGTCTCAGTCCCAGTGTGGCCGGTCGCCCTCTCAGGCCGGCTACCG TCGTCGCCTTGGTAGGCCATTACCCACCAACAAGCTGATANGNCGNGGGCTCATCCTTCACCGNCGGAGCTTTCAANCCCGTCCCATGCGGGACAGAGTGTTATCCGGTATTAAACCCGTNTCCAGGGCTTGTCCATAGTGAAGGGCAGA TTGCCCAAGTGTTATCANCCGTTCGACTGCATGTGTT

PM252

SEQ ID NO:29

TCCTCAGNATCAGTAATGGCCCAGAGATCCGCCTTCGCCACCGGTGTTCCTCTGATATCTGCGCATTTCACCGC
TACACCAGGAATTCCGATCTCCCCTACCACACTCTANCTAGCCCGTATCGAATGCAGACCCGGGGTTAAGCCCCG
GGCTTTCACATCCGANGTGACAAGCCGCCTACGAGCTCTTTACGCCCAATAATTCCGGACAANGCTTGCGCCCTA
CGTATTACCGCGGTTGCTGGCACGTAGTTAGCCGGCGCTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTG
CTGAAAGAGGTTTACAACCCGAAGGCCGTCATCCCTCACNCGGCGTCGCTGCATCAGGCTTTCGCCCATTGTGCA
ATATTCCCCACTGCTGCCTCCCGTAGGAGTCTGGGCCGTGTCTCAATCCCANTGTGGCCGGTCGCCTCTCANGC
CGGCTACCGTCGCTCGCTTGGTAGGCCATTACCCCACCAACAAGCTGGATAGGNCGGGGGCTCATTCTTCACCGCC
GGAAGCTTTAANCCCGTCCATGCGGGANANAGTGNATCCCNGTATTAAACCCNGTTTCAGGGCTTGTCCANAGTG
AAGGGNGATTGCCCNAGTGTTTATCNCCCGTTCGCCANTAATCNACAACGAAAGCGGNTTCNTCGNTTCGACTTG

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[FIGURE 18 CONTINUED]

PM342

SEQ ID NO:30

TAATGCCCAGAANATCCGCCTTCGCCACCGGTGTTCCTCCTGAATATCTGCGCATTTCACCGCTACACCAGGAA
TTCCGATCTCCCCTACCACACTCTAGCTAGCCCGTATCGAATGCAGACCCGGGGTTAAGCCCCGGGCTTTCACAT
CCGACGTGACAAGCCGCCTACGAGCTCTTTACGCCCAATAATTCCGGACAACGCTTGCGCCCTACGTATTACCGC
GGCTGCTGGCACGTAGTTAGCCGGCGCTTCTTCTGCAGGTACCGTCACTTTCGCTTCTTCCCTGCTGAAAGAGGT
TTACAACCCGAAGGCCGTCATCCCTCACGCGGCGTCGCTGCATCAGGCCTTCTCAGGCCGGNTANCCGTC
GCTGCCTCCCGTAGGAGTCTGGGCCGTGTCTCAGTCCCAGTGTGGCGCCCTCTCAGGCCGGAGCTTTTAA
CCCCGTCCCATGCGGGACAGAGTGTTATCCGGTATTAGATCCCGTNTCCAGGGCTTGTNCATAGTGAAGGGCANA
TTGCCACGTGTTACTCANCCGTTCGC

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FIGURE 19

EN4

GGCGGCGTGCTTAACACATGCAAGTCGAACGATGAACCACTTCGGTGGGGATTAGTGGCGAACGGGTGAGTAACA CGTGGGCAATCTGCCCTTCACTCTGGGACAAGCCCTGGAAACGGGGTCTtAATACCGGATAACACTCCCACTCTC CTGAGTGGGGGTTAAAAGCTCCGGCGGTGAAGGATGAGCCCGCGGCCTATCAGCTTGTTGGTGAGGTAATGGCTC ACCAAGGCGACGGCTAGCCGGCCTGAGAGGGGCGACCGGCCACACTGGGACTGAGACACGGCCCAGACTCCTA CGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGAAAGCCTGATGCAGCGACGCCGCGTGAGGGATGACGGCC TTCGGGTTGTAAACCTCTTTCAGCAGGGAAGAAGCGAAAGTGACGGTACCTGCAGAAGAAGCGCCGGCTAACTAC GTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGAGCTCGTAGGCGGC GGGAGATCGGAATTCCTGGTGTAGCGGTGAAATGCGCAGATATTCAGGAGGAACACCGGTGGCGAAGGCGGATCT $\tt CTGGGCCATTACTGACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGGTAGTCCACGCCGT$ $\verb|AAACGGTGGGAACTAGGTTGTTGGCGACATTCCACGTCGTCGGTGCCGCAGCTAACGCATTAAGTTCCCCGCCTG|$ GGGAGTACGGCCGCAAGGCTAAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCAGCGGAGCATGTGGCTTAAT ${\tt TCGACGCAACGCGAAGAACCTTACCAAGGCTTGACATACACCGGAAAGCATCAGAGATGGTGCCCCCCTTGTGGT}$ CGGTGTACAGGTGGTGCATGGCTCGTCAGCTCGTGTGGGATGTTGGGTTAAGTCCCGCAACGAGCGCAAC CCTTGTTCTGTGTTGCAGCATGCCCTTCGGGGTGATGGGGACTCACAGGAGACCGCCGGGGTCAACTCGGAGGAA GGTGGGGACGACGTCAAGTCATGCCCCTTATGTCTTGGGCTGCACACGTGCTACAATGGCAGGTACAATGAG $\tt CTGCGATACCGTGAGGTGGAGCGAATCTCAAAAAGCCTGTCTCAGTTCGGATTGGGGTCTGCAACTCGACCCcaT$ GAAGTCGGAGTTGCTAGTAATCGCAGATCAGCATTGCTGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCC CTGGCGATTGGG

EN10

GAGTTTGATCNNGGCTCAGACGAACGCTGGCGGCGTGTTAACACAANCCAAGTCGAANGNTGAACCACTTCGTTG GGATTAGTGCGAACGGTGNTAACACGNTGGCAATGTGCCCTTCACTNTGGGACAAGNCCTGGAAACCGGGTTCTA ATACCGGATACCACTACCCGCAGGCATCTGTGGTGTTTGAAAGCTCCGCCGTTGAAGGATGAGCCCGCGGCCTAT CAGCTTGTTGGTGAGGTAATGGCTCACCCAAGGCGACGACGGATAGCCGGCCTGAGAGGGGGGACCGGCCACACTG GGACTGAGACACGGCCCAGACTCCTACGGAGGCAGCAGTGGGGGAATATTGCACAATGGGCGAAAGCCTGATGCAG CGACGCCGCGTGAGGGATGACGGCCTTCGGGTTGTAAACCTCTTTCAGCAGGGAAGAAGCGAAAGTGACGGTACC TGCAGAAGAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTGTCCCGAATTAT TGGGCGTAAAGAGCTCGTAGGCGGCTTGTCACGTCGGGTGTGAAAGCCCGGGGCTTAACCCCGGGTCTGCATTCG ATACGGGCTAGCTAGAGTGTGGTAGGGGAGATCGGAATTCCTGGTGTACCCGGTGAAATGCGCAGATATCAGGAG GAACACCGGTGGCGAAGGCGGATCTCTGGGCCATTACTGACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGGAT TAGATACCCTGGTAGTCCACGCCGTAAACGGTGGGAACTAGGTGTTGGCGACATTCCACGTCGTCGGTGCCGCAG CTAACGCATTAAGTTCCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACTCAAAGGAATTGACGGGGGCCCGCAC AAGCAGCGGAGCATGTGGCTTAATTCGACGCAACGCGAAGAACCTTACCAAGGCTTGACATACGCCGGAAAGCAT CAGAGATGGTGCCCCCCTTGTGGTCGGTGTACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTCGTGAGATGTTGG GTTAAGTCCCGCAACGAGCGCAAcCCTTGTCCTGTGTTGcCAGCATGCCCTTCGGGGTGATGGGGACTCACAGGA GACCGCCGGGGTCAACTCGGAGGAAGGTGGNGACGACGTCGAGTCATCATGCCCCTTATGTCTTGGGGCTGCACA ${\tt CGTGCTACNATGggCaGGTACAATGAGCTGCGATACCGTGAGGTGGAGCgCATCTnnnnnAGCctGTCTCAGTTC}$ ${ t GgATTGGGGTCTGcAACTCGACCCCaTGAAGTCGgAGTTGCTAgATAATCgCAgATCAGCATTGCtGCGgTGAAT$ ACGTECCCGGGCCTTGTACACACCGCCCGTCACGTCACGAAAGTCGGTAACACCCGAAGCCGGTGGCCCAACCCC TTGTGGGAGGGAGCTGTCGAANGTGG

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[FIGURE 19 CONTINUED]

EN22

TCCTCAGCGTCAGTAATGGCCCAAAAACCGCCTTCGCCACCGGTGTTCCTCCTGATATCTGCGCATTTCACCGCT ACACCAGGAATTCCNATCTCCCCTACCACACTCTAGCTAGCCCGTATCNAATGCAAACCCGGGGTTAANCCCCGG GCTTTCACATCCNACNTGACAAGCCGCCTACAANCTCTTTACGCCCAATAATTCCGGACAACNCTTGCGCCCTAC TTATTACCGCGGCTGCTGCTGCACTTTTATTAGCCGGCGCTTCTTCTGCAGCCTCACGTACCTTCACGCGGCNTCNCTGCATCAGGCTTTCNCCCATTGTGCAA TATTCCCCACTGCTGCCTCCCGTAGGATTCTGGGCCGTTCTCACGCCGTTCCCCACTGCTGCCCCTCCCAGGCC GCCTCCCCACAAACCCGTCGTCCCCTTCAGGCC GGCCTCTCAGGCC GGCTCCCCTTGGTAGGCCATTACCCCNCCAACAANCTGATAGGCCGGGGCTCNTCCTTCACCGCC GGAGCTTTCAACCCCGTCCCATGCGGGANAAANTGTTNTCCGGTATTAAAACCCGTTTCCAGGGNTTGTCCAAAA TTGAAGGGNANATTGCCCACTTTTNNTCACCCGTTCCCCACTAATCCACCACCAAA

EN30

TGGNGGNGTGCTTAACACATGCAAGTCGAACGATGAANCCTTTCGGGGTGGATTAGTGGCGAACGGGTGAGTAAC ACGTGGGCAATCTGCCCTTCACTCTGGGACAAGCCCTGGAAACGGGGTCTAATACCGGATAACACTCTGTCCCGC ATGGGACGGGGTTAAAAGCTCCGGCGGTGAAGGATGAGCCCGCGGCCTATCAGCTTGTTGGTGGGGGTGATGGCCT ACCAAGGCGACGGGTAGCCGGCCTGAGAGGGCGACCGGCCACACTGGGACTGAGACACGGCCCAGACTCCTA CGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGAAAGCCTGATGCAGCGACGCCGCGTGAGGGATGACGGCC TTCGGGTTGTAAACCTCTTTCAGCAGGGAAGAAGCGAAAGTGACGGTACCTGCAGAAGAAGCGCCGGCTAACTAC GTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGAGCTCGTANGCGGC GGAGATCGGAATTCCTGGTGTANCGGTGAAATGCGCAGATATCAAGAGGAACANCGGTGGCGAANGCGGATCTCT GGGCCATTACTGACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGGTAGTCCACGCCGTAA ACGTTGGGAACTAGGTGTTGGCGACATTCCACGTCGTCGGTGCCGCAGCTAACGCATTAAGTTCCCCGCCTGGGG AGTACGGCCGCAAGGCTAAAAGTCAAAGGAATTGACGGGGGCCCGCACAAGCAGCGGAGCATGTGGCTTAATTCG ACGCAACGCGAAGAACCTTACCAAGGCTTGACATATACCGGAAAGCATCAGAGATGGTGCCCCCCTTGTGGTCGG TATACAGGTGGTGCATGGCTCGTCGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCCT TGTTCTGTGTTGCCAGCATGCCCTTCGGGGTGATGGGGACTCACAGGAGACTGCCGGGGGTCAACTCGGAGGAAGG TGGGGACGACGTCAAGTCATGCCCCTTATGTCTTGGGCTGCACACGTGCTACAATGGCCGGTACAATGAGCT GCGATGCCGCGAGGCGGAGCGAATCTCAAAAAGCCGGTCTCAGTTCGGATTGGGGTCTGcAACTCGACCCcATGA AGTCGGAGTTGCTAgTAATCgCAgATCAgCATTGCTGCGGTGAATACgTTNCCGGGCCTtGTACAcACCGCCCGT CACGTCACGAAAGTCGGTAACACCCGAAGNCCGGTGGTCCAACCCCTTGTGGGAGGGAGACTGTCGAAGGTGGGA CTGGCGATTGG

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[FIGURE 19 CONTINUED]

EN47

CGCTGGCGGCGTGCTTAACACATGCAAGTCGAGCGGAAAGGCCCTTCGGGGTACTCGAGCGGCGAACGGGTGAGT AACACGTGAGTAATCTGCCCCAGGCTCTGGGATAGCCACCGGAAACGGTGATTAATACCGGATACGACAACCGAT TGCATGATCTGGTTGTGGAAAGTTTTTCGGCCTGGGATGTGCTCGCGGCCTATCAGCTTGTTGGTGAGGTAATGG CTCACCAAGGCTTCGACGGGTAGCCGGCCTGAGAGGGTGACCGGCCACACTGGGACTGAGACACGGCCCAGACTC CTACGGGAGGCAGCAGTGGGGAATATTGGACAATGGGCGGAAGCCTGATCCAGCAACGCCGCGTGAGGGATGACG GCCTTCGGGTTGTAAACCTCTTTCAGCACAGACGAAGCGCAAGTGACGGTATGTGCAGAAGAAGGACCGGCCAAC TACGTGCCAGCAGCCGCGGTAATACGTAGGGTCCGAGCGTTGTCCGGAATTATTGGGCGTAAAGGGCTCGTAGGC GGTCTGTCGCGTCGGGAGTGAAAACCAGGTGCTTAACACCTGGCCTGCTTTCGATACGGGCAGACTAGAGGTACT CAGGGGAGAATGGAATTCCTgGTGTAGCGGTGAAATGCGCAGATATTCAGGAGGAACACCGGTGGCGAAGGCGGT TCTCTGGGAGTATCCTGACGCTTGAAGAGCGAAAGTGTGGGGAGCGAACAGGATTAGATANTNTGGTAGTCCACA CCGTAAACGTTGGGCGcTAGGTGTGGGACACATTCCACGTGTTCCGTGCCGCAGCTAACGCATTAAGCGCCCCGC CTGGGGAGŤACGGCCGAAGGCTAAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCGGCGGAGCATGCGGATT AATTCGATGCAACGCGAAGAACCTTACCTGGGTTTGACATACACCGGAAAGCCGTAGAGATACGGCCCCTTTTAG TCGGTGTACAGGTGGTGCATGGCTGTCGTCGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAA CCCTCGTCCTATGTTGCCAGCAATTCGGTTGGGGACTCATAGGAGACTGCCGGGGTCAACTCGGAGGAAGGTGGG GATGACGTCAAGTCATGCCCCTTATGTCCAGGGCTTCACGCATGCTACAATGGCCGGTACAAAGGGCTGCGA ${\tt TCCCGTGAGGGTGAGCGAATCCCAAAAAGCCGGTCTCAGTTCGGATTGGGGTCTGCAACTCGACCCCATGAAGTC}$ GGAGTCGCTAGTAATCGCAGATCAGCAACGCTGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCCGTCACG

EN59

GGGNATTAGTGGGGAACGGGTGAGTAAAANGTGGCCANTTTCCCCTGNATTTTGGACANCCCCNGGAAANGGNTT NTAAAACNGGATANTGACCACCTTGGCATCCAAGTTTTNGAAACTTCCGGCGGTGCAGGATGAGCCNGCGGCNTA TNAGCTTGTTGGNGAGGTAATGGNTCACCAAGGGANGACGGGTAGCCGGCCTGAGAGGGGACCNGCCACANTGGG ANTGAGANACGGCCCAGANTCCTACGGGAGGCAGCAGTGGGGGAATATTGCACAATGGGCGAAAGCCTGATGCAGG ANNCCGCGTGAGGGANGACGGCCTTNGGGTTGTAAACNTTTTTNAGCAGGGAAGAGCGAAAGTGACGGTACCTG CAGAAGAAGCGCCGGCTAAATAAGTGCCAGCAGCCGCGTAATAAGTAGGGNGCGAGCGTTGTNCGGAATTATTG GGNGTAAAGAGTTTGTAGGCGGNTTGTNAAGTNGGTTGTGAAAGCCCGGGGNTTAACCCCGGGTTTGCAGTTGAT CACCGGTGGCGAAGGCGGATCTCTGGGCCATTACTGACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGGATTAG $\tt ATACCCTGGTAGTCCACGCCGTAAACGGTGGGAACTAGGTGTTGGCGACATTCCACGTCGTCGGTGCCGCAGCTA$ CAGCGGAGCATGTGGCTTAATTCGACGCAACGCGAAGAACCTTACCAAGGCTTGACATACACCGGAAAGCATCAG GGGGTCTGCAACTCGANCCCATGAANTCGGAGTTGCTAATTAATCGCAAAATCAAGCATTGCTGGCGGTGAATAC GTTCCC

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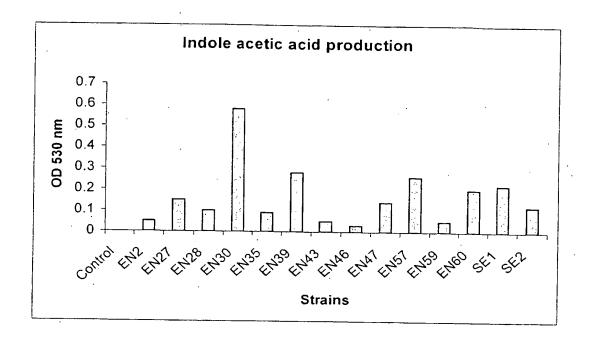


Figure 20

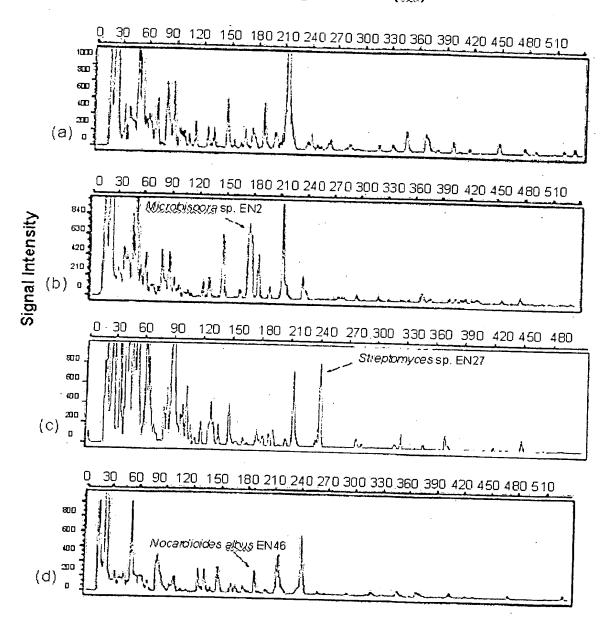
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Figure 21

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